

Technical Associate Director Data Architecture

Job ID
REQ-10045696

4月 23, 2025

Switzerland

摘要

The Scientific Data & Products (SDP) group in Research Informatics (RX) is driven to maximize the impact and value to BR of software and data. We deliver powerful, functional, beautiful, and integrated software solutions that create a frictionless user experience. Our organization is here to build and apply excellence in product and data management to further Novartis drug discovery.

About the Role

The Data Management group in Research Informatics (RX) is seeking a visionary and technically skilled Data Architect to lead the design and implementation of enterprise-scale data architectures. This role is pivotal in ensuring that biomedical research data is AI-ready, accessible, and interoperable across scientific domains. The focus is on designing robust data architectures, technical stacks, and APIs that enable seamless data integration, governance, and utilization by AI models and data scientists.

Major Responsibilities

- Design and evolve enterprise-level data architectures that support scientific data interoperability and AI-readiness.
- Define and implement technical stacks and APIs to enable secure, scalable, and performant data access.
- Establish formal data architecture processes aligned with research data management policies and FAIR principles.
- Collaborate with domain experts to define logical data domains, sub-domains, and critical data elements (CDEs).
- Inventory and map physical data repositories to logical domains and facilitate metadata capture at data creation.
- Develop conceptual and logical data models and document relationships between data objects.
- Ensure alignment with scientific standards (e.g., HELM, CDISC) and enforce metadata governance.
- Promote the creation of “born FAIR” data and support the publication of CDEs to foundational platforms (e.g., data lakes, warehouses).
- Collaborate with IT, data engineering, and security teams to ensure compliance, automation, and operational integration.
- Drive architectural improvements and standardization across scientific data workflows.

Essential Requirements:

- 10+ years of experience in data architecture, data engineering, or software development.
- 5+ years in scientific software or drug discovery environments.
- Master 's degree or equivalent experience in a relevant field.
- Deep expertise in designing data architectures, APIs, and technical stacks.
- Experience with RDF, ontologies, cloud platforms (AWS, Google, Azure), and graph databases.
- Strong understanding of laboratory data workflows and scientific data types (biology, chemistry, clinical).
- Proven ability to align scientific and IT stakeholders around strategic data initiatives.

This role offers a unique opportunity to shape the future of data architecture in biomedical research and to enable transformative AI-driven insights.

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Commitment to Diversity & Inclusion: Novartis is committed to building an outstanding, inclusive work environment and diverse teams ' representative of the patients and communities we serve.

How can we achieve this?

With our people. It is our associates that drive us each day to reach our ambitions. Be a part of this mission and join us! Learn more here: <https://www.novartis.com/about/strategy/people-and-culture>

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部门

Biomedical Research

Business Unit

Pharma Research

地点

Switzerland

站点

Basel (City)

Company / Legal Entity

C028 (FCRS = CH028) Novartis Pharma AG

Functional Area

Research & Development

Job Type
Part time

Employment Type
Regular

Shift Work
No

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